

## Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

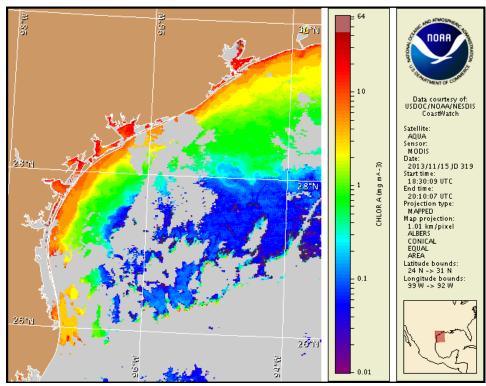
Monday, 18 November 2013

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Tuesday, November 12, 2013



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from November 8 to 15: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs\_bulletin\_guide.pdf

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at: http://www.tpwd.state.tx.us./landwater/water/environconcerns/hab/redtide/status.phtml

## **Conditions Report**

There is currently no indication of *Karenia brevis* (commonly known as Texas red tide) along the coast of Texas. No respiratory irritation is expected Monday, November 18 through Monday, November 25. Check <a href="http://tidesandcurrents.noaa.gov/hab/beach\_conditions.html">http://tidesandcurrents.noaa.gov/hab/beach\_conditions.html</a> for recent, local observations.

There are currently patches of a bloom of the algae *Aureoumbra lagunensis* in the upper Laguna Madre region. This algae species does not produce the respiratory irritation associated with the Texas red tide caused by *Karenia brevis*, but it may cause discolored water and fish kills.

## **Analysis**

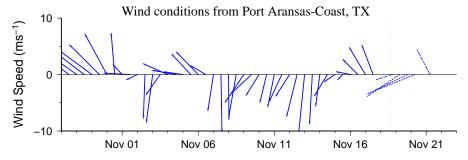
There is currently no indication of *Karenia brevis* along the coast of Texas. For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua imagery is partially obscured by clouds along- and offshore the Texas coast, limiting analysis. In MODIS imagery from 11/15 (shown left), patches of elevated chlorophyll (3-10 $\mu$ g/L) are visible stretching along- and offshore the Texas coast with patches of high chlorophyll (11-15 $\mu$ g/L) visible alongshore from Sabine Pass through the Bolivar Peninsula region and in the Padre Island National Seashore region. Elevated chlorophyll is most likely not indicative of the presence of *K. brevis* and is probably due to the resuspension of benthic chlorophyll and sediments along the coast.

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 110 km south from the Port Aransas region from November 15-21.

Davis, Kavanaugh

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive: http://tidesandcurrents.noaa.gov/hab/bulletins.html

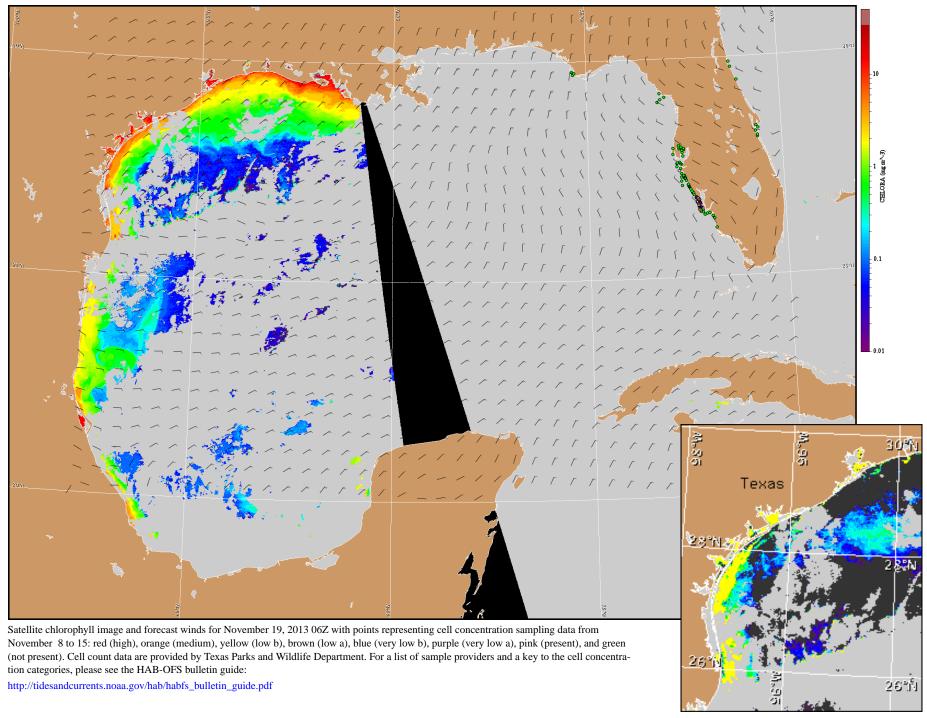


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

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## Wind Analysis

**Port Aransas:** Northeast winds (5-20kn, 3-10m/s) today and Tuesday becoming east winds (10-15kn, 5-8m/s) Tuesday night. Southeast winds (10-15kn) Wednesday through Thursday. Southeast winds (5-10kn, 3-5m/s) Friday becoming east winds (10-15kn) in the afternoon. Northeast winds (15-20kn, 8-10m/s) Friday night becoming north winds (20-25kn, 10-13m/s) after midnight.



Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).